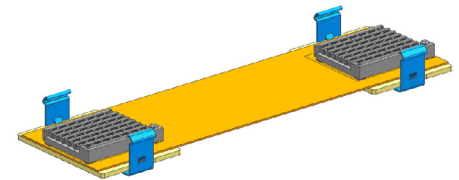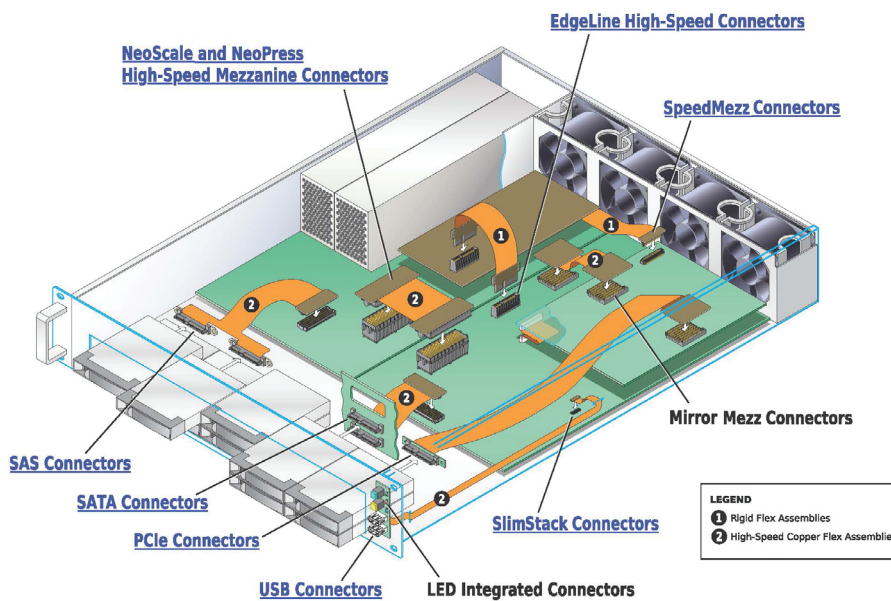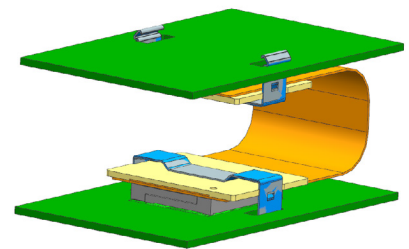# HIGH-SPEED FLEXIBLE PRINTED CIRCUITS (FPC)

molex

High-Speed Copper Flex Solutions deliver up to 56 Gbps NRZ and overcome design challenges for space-constrained applications. These solutions enable rapid prototyping, reduce tooling investments and enhance airflow for thermal management.

FEATURES AND ADVANTAGES

NeoScale and NeoPress High-Speed Mezzanine Connectors

EdgeLine High-Speed Connectors

SpeedMezz Connectors

Mirror Mezz Connectors

SAS Connectors

SATA Connectors

PCIe Connectors

USB Connectors

LED Integrated Connectors

SlimStack Connectors

LEGEND
1 Rigid Flex Assemblies
2 High-Speed Copper Flex Assemblies

Mirror Mezz Flex, Horizontal Application

Mirror Mezz Flex, Mezzanine Application

KEY ADVANTAGES

Fast (56 Gbps NRZ protocol)
- Higher integrity performance
- Less via-stub effects
- No glass-fiber reinforcement

Flat
- Thin, pliable flex cables
- Tighter bending radius
- Airflow enhancement

Flexible
- Component integration
- Signal and power circuit variation in flex

Copper Flex Jumper options (edge card applications)
Rigid-flex structure with gold finger. Compatible with edge card connector family

Copper Flex Jumper options (board-to-board applications)
Compatible with Molex high-speed b-to-b connectors
- Mirror Mezz
- SpeedMezz Family
- NeoScale Family
- Searay Family
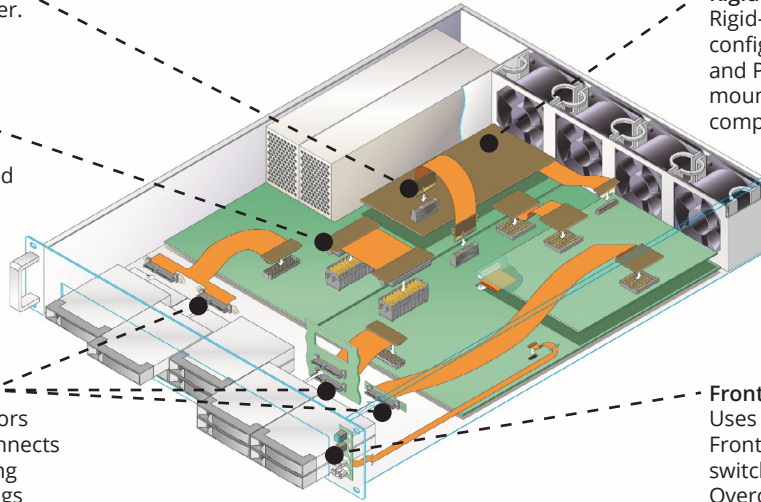- SlimStack Family

Storage application options
Compatible with storage connectors including SAS, SATA and PCIe. Connects to thin, flat cables for tight bending radius and maximum space savings

Rigid-flex circuit assembly options
Rigid-flex structure simplifies configuration (integrating cable and PCBA all in one piece). Enables mounting of active or passive components

Front-panel integrated flex options
Uses SlimStack Connector System. Front-panel device (USB, LED, switch button) integration. Overcomes space constraints

APPLICATIONS

Data/Telecom/Networking
Servers
High-end computers
Storage servers
Routers
Switches

Automotive
Connected mobility

Medical
Digital information servers

Data Centers

Automotive

Medical

ORDERING INFORMATION

Custom Product	Description		
Contact Molex	High-Speed Flex Solutions		
	Compatible Connector Families	Maximum Differential Pairs (DP)	Maximum Data Rate
	Mirror Mezz	Up to 96	Up to 56 Gbps
	SpeedStack/SpeedEdge	Up to 22	Up to 56 Gbps
	Searay	Up to 132	Up to 16 Gbps
	SAS/SATA/PCIe	Depends on the connector	Up to 12 Gbps
	SlimStack	Up to 25	Up to 16 Gbps

www.molex.com/link/highspeedflexassemblies.html